

**Title: INTEGRATED SYSTEM FOR QUICKLY AND ACCURATELY
IMAGING AND MODELING THREE DIMENSIONAL OBJECTS**

Abstract

5 An integrated system generates a model of a three-dimensional object.
A scanning laser device scans the three-dimensional object and generates a
point cloud. The points of the point cloud each indicate a location of a
corresponding point on a surface of the object. A first model is generated,
responsive to the point cloud, that generates a first model representing
10 constituent geometric shapes of the object. A data file is generated, responsive
to the first model, that can be inputted to a computer-aided design system.